

MTP 15HD RS Series • Setup Guide

IMPORTANT:
Go to www.extron.com for the complete user guide and installation instructions before connecting the product to the power source.

This guide provides instructions for setting up and operating any of the Extron MTP 15HD RS transmitters and receivers.

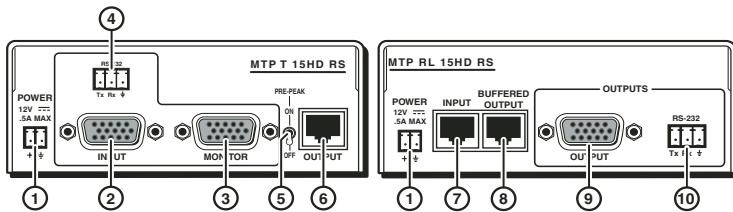


Figure 1. Transmitter and Receiver Rear Panels

Pre-Installation – RS-232 DIP Switch

The RS-232 circuits of the receiver are factory-set to be one-way, transmitter to receiver. If the system has only one receiver, the BI-232 DIP switch on the front panel of the receiver can be set for two-way communication as explained in step 5 of “Installation”.

Installation

1. Turn off all MTPs and devices.

Turn the input and output devices off and unplug their power cords. Verify that all MTPs are disconnected from power sources before proceeding.

2. Connect the transmitter inputs.

- Connect a VGA video source to the Input connector (②).
- Connect a VGA monitor to the Monitor connector (③).
- Connect an RS-232 control device into the RS-232 connector (④). Wire the connector as shown in figure 2.

3. Terminate and connect TP cables between units.

- Connect a TP cable between the Output connector (⑥) of the transmitter and the Input connector (⑦) of the receiver. Terminate the cable identically with either standard as shown in figure 3.
- **For daisy-chaining**, connect up to eight receivers using TP cables between the Buffered Output connector (⑧) of a receiver and the Input connector (⑦) of a daisy-chained receiver.

4. Connect the receiver outputs.

- Connect a VGA display to the Output connector (⑨).
- Connect an RS-232 control device into the RS-232 connector (⑩). Wire the RS-232 connector as shown in figure 2.

5. Configure the receiver DIP switches.

- See figure 4 for DIP switch (located on the front panel of the receiver) layout and settings.
- **H Sync + and V Sync + switches** — Set these switches On (up) for positive sync or Off (down) for negative sync.
 - **S-Video switch** — Set this switch ON (up) to output chroma on pin 3 and luma on pin 2. Set this switch OFF (down) to output chroma on pin 1 and luma on pin 2.
 - **End Unit switch** — Set this switch On (up) if either of the following is true:
 - The receiver being configured is the only receiver connected to the transmitter.
 - The receiver being configured is the last receiver in a daisy-chained system.

NOTE: Set the End Unit switch Off (down) on the receiver being configured if there are one or more receivers connected to the Buffered Output RJ-45 connector.

- **BI-232 switch** — Set this switch ON (up) for bidirectional communication or OFF (down) for unidirectional communication.

6. Terminate the power cable and ground the unit.

ATTENTION: See “Power Supply Wiring” in the user guide before wiring.

Wire the 2-pole captive screw connectors as shown in figure 5. Plug them into the Power connectors (①) of the MTPs. The LED indicator on each MTP should be on when receiving power.

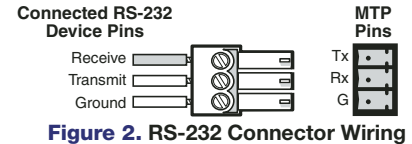


Figure 2. RS-232 Connector Wiring

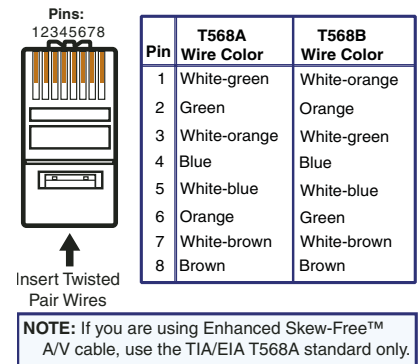


Figure 3. TP Termination Diagram

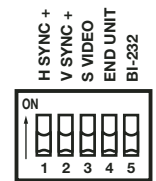


Figure 4. DIP Switches

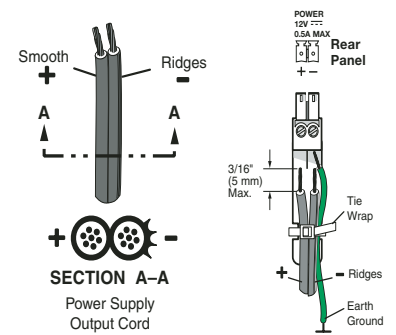


Figure 5. Power Wiring and Grounding

MTP 15HD RS • Setup Guide (Continued)

Grounding guidelines:

Extron MTP 15HD RS products can be adversely affected by electrostatic discharge (ESD) if they are not grounded correctly.

To prevent malfunctions or product damage, an installer can correctly ground an Extron MTP 15HD RS series product by grounding the power input port. Insert one end of the grounding wire to the negative or ground pin on the power input connector (see figure 5). Tie the other end of the wire to an earth ground.

If you have any questions about how to ground a product in a specific application, contact an Extron technical support specialist.

7. Configure EDID.

See the EDID Minder section below for instructions on configuring EDID.

8. Adjust level and peaking.

- **Pre-Peak switch (transmitter)** — View the image and set the Pre-Peaking switch (⑤). Set this switch to On (up) to compensate for long cable runs of the entire system.
- **Level control (receiver)** — View the image and adjust the Level control (see figure 6). Full counterclockwise is minimum level.
- **Peaking control (receiver)** — View the image and adjust the Peaking control (see figure 6). Full counterclockwise is zero peaking.



Figure 6. Level and Peaking

9. Adjust skew delay control (SEQ receivers).

Adjust the skew delay as follows (see figure 7):

- Zero the skew delay for red, green, and blue by using a small screwdriver to press and hold the Select button for 3 seconds. When the red, green, and blue LEDs all turn off, release the Select button.
- Use UTP cable test equipment or examine the displayed image to determine which video signal (red, green, or blue) is shifted furthest to the left.
- Select the furthest left video signal by using a small screwdriver to press and release the Select button until the LED for the left-shifted color lights.
- Slowly rotate the Delay knob clockwise until the selected color is converged.
- If the remaining colors are left shifted, repeat steps b through d.

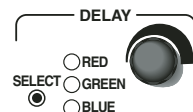


Figure 7. Skew Delay Control

10. Mount the MTPs.

If necessary, mount the MTPs. For mounting information, see the *MTP 15HD RS Series User Guide*.

EDID Minder

To use factory-installed EDID information or the user-recorded EDID:

- If you have not already done so, connect the source device to the MTP 15HD transmitter. Do not power on the source device at this time.
- Set the front panel DIP switch (③) to the required frequency (50 or 60 Hz).
- Set the rotary dial (④) to the required position (see the table to the right). Positions 1 through E are factory installed. Position 0 is for user-recorded EDID information. Position F passes the EDID from the display connected to the Monitor loop-through port on the transmitter back to the input.

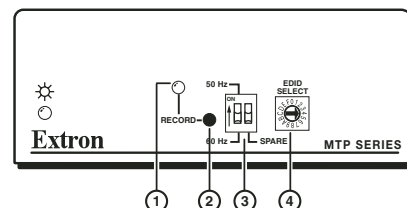


Figure 8. MTP Transmitter Front Panel

To record EDID information from a specific monitor:

- Turn the EDID Select dial (④) to position 0.

NOTE: The frequency DIP switch position (③) has no effect in this mode.

- Connect a display to the Monitor connector on the transmitter.

NOTE: The MTP 15HD RS transmitter should be supplying the necessary 5 VDC to power on the display. However, to ensure that EDID is being transmitted, power on the display.

- Press and release the recessed Record button (②) to begin the recording process. The Record LED (①) will flash red rapidly during recording, then return to solid green after recording is completed. At this time, the display can be disconnected. Connect the source device to the input connector.
- Power on or restart the source device.

Rotary Switch Position	Resolution
0	User-recorded EDID
1	800x600
2	1024x768 (default)
3	1280x720
4	1280x768
5	1280x800
6	1280x1024
7	1360x768
8	1366x768
9	1400x1050
A	1400x900
B	1600x1200
C	1680x1050
D	1920x1080
E	1920x1200
F	Local monitor pass-through